





September 27, 2015

Location Code: GKMTW20

Durango, CO 81301

Re: Groundwater Well Sampling Results

Dear (b) (6)

Thank you for participating in the private drinking water well sampling conducted by the U.S. Environmental Protection Agency (EPA) in coordination with the Colorado Department of Public Health and Environment (CDPHE) and the San Juan Basin Health Department (SJBHD).

This letter provides the results for the water samples collected from your private water well. The water sample(s) were submitted to, and analyzed by, a private certified laboratory for the metals that could have been present in water from the Gold King Mine release. Attached a map illustrating Reward the nearby sediment results. These results for these locations are available at http://www2.epa.gov/goldkingmine/data-gold-king-mine-response.

The test results for your well water were compared to the National Drinking Water Standards, otherwise known as the Maximum Contaminant Levels (MCLs). The results of the analysis are provided in the enclosed table. Though these standards are intended for the evaluation of public water systems and therefore, do not apply to private domestic water wells such as yours, we have included the enclosed table so that you may compare the results with the Drinking Water Standards. None of these metals were present in the water sample(s) collected from your property, above a level of concern for human health exposure.

EPA has also established National Secondary Drinking Water Regulations that set non-mandatory water quality standards for 15 contaminants. EPA does not enforce these "secondary maximum contaminant levels". They are established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color and odor. These contaminants are not considered to present a risk to human health at the secondary maximum contaminant level.

The concentration of iron in your well water was above the secondary MCL which is 300 µg/L. Iron is an essential element for human nutrition however, high iron can cause constipation and other gastrointestinal effects. In addition, high iron may stain household fixtures and impart a metallic taste and red color to the water.

The Colorado Department of Public Health and Environment recommends using the Water Quality Interpretation Tool created by Colorado State University in collaboration with the Colorado Water Institute to get more information regarding the metals examined in your well. The Water Quality Interpretation Tool is available online at https://erams.com/wqtool/.

If you have any health related questions regarding these test results, please contact Flannery O'Neil with the San Juan Basin Health Department (SJBHD) at (970) 247-5702. If you would like to discuss your sample results with an EPA representative, please contact Dr. Deborah McKean at (303) 579-4371.

Enclosure

CC:







September 20, 2015

(b) (6) Location Code: GKMTW20 (b) (6), (b) (9) Durango, CO 81301

Dear (b) (6)

The U.S. Environmental Protection Agency (EPA) is aware that you have raised concerns regarding potential impacts to your property related to the Gold King Mine release. We understand that an EPA On Scene Coordinator met with you and shared a map showing the nearest sediment and surface water sample data.

EPA has worked closely with the San Juan Basin Health Department and the Colorado Department of Public Health and Environment to evaluate the conditions in the Animas River following the incident. Surface water and sediment samples collected throughout the watershed have demonstrated the river has returned to pre-event conditions. Data received from samples collected from other properties in the area have met risk-based screening levels for recreational use.

If you have any questions regarding this matter please contact Cynthia Peterson, EPA Community Involvement Coordinator, at (303) 312-6879.

Sincerely,

U.S. Environmental Protection Agency, Region 8

Enclosure







Back 9/28

September 20, 2015

(b) (6) (b) (6), (b) (9)

GKMTW20

Durango, CO 81301

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Enclosure

* Exceedence of Iron language







September 12, 2015

(b) (6)

Location Code: GKMTW20

(b) (6), (b) (9)

Durango, CO

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The test results for your well water were compared to the National Drinking Water Standards, otherwise known as the Maximum Contaminant Levels (MCLs). The results of the analysis are provided in the enclosed table. Though these standards do not apply to private domestic water wells such as yours, we have included the enclosed table so that you may compare the results with the Drinking Water Standards. None of these metals were present in the water sample(s) collected from your property above a level of concern for human health exposure.

EPA has also established National Secondary Drinking Water Regulations that set non-mandatory water quality standards for 15 contaminants. EPA does not enforce these "secondary maximum contaminant levels". They are established only as guidelines to assist public water systems in managing their drinking water for aesthetic considerations, such as taste, color and odor. These contaminants are not considered to present a risk to human health at the secondary maximum contaminant level.

The concentration of iron in your well water was above the secondary maximum contaminant level for iron which is $300~\mu g/L$. Iron is an essential element for human nutrition; however, high iron can cause constipation and other gastrointestinal effects. In addition, high iron may stain household fixtures and impart a metallic taste and red color to the water.

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Enclosure

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 Joni Sandoval recommended NFA, after providing homeowner a zoomed-out map showing nearest sediment/surface water sampling data. Need to send a modified Category 1 letter with nearby sediment results.

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September 12, 2015

(b) (6) Location Code: GKMTW20 (b) (6), (b) (9) Durango, CO

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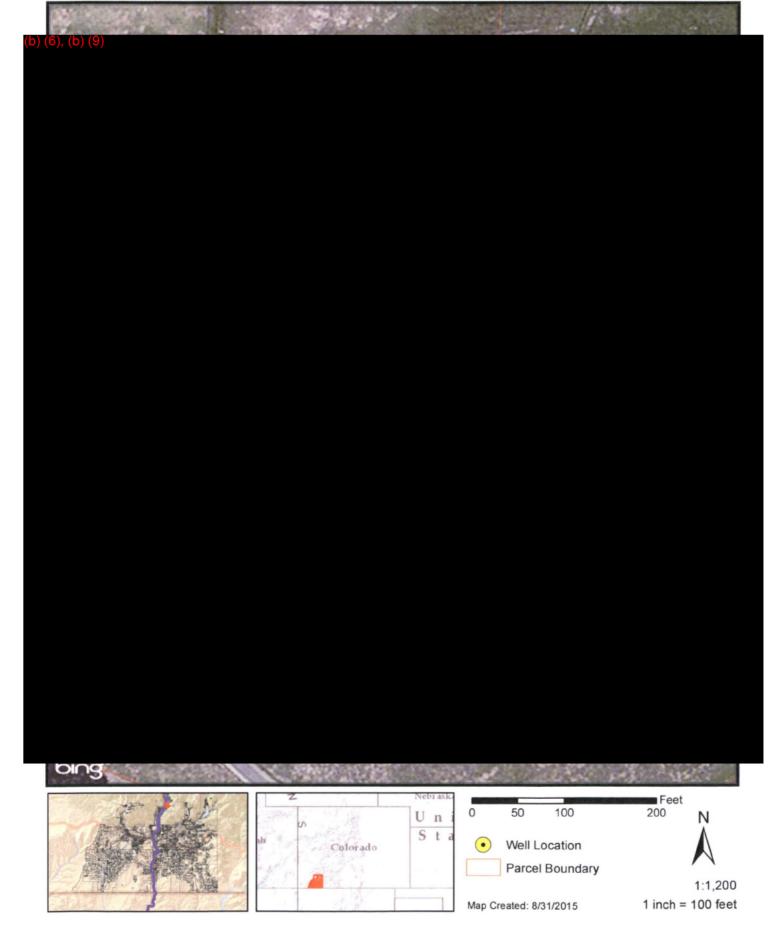
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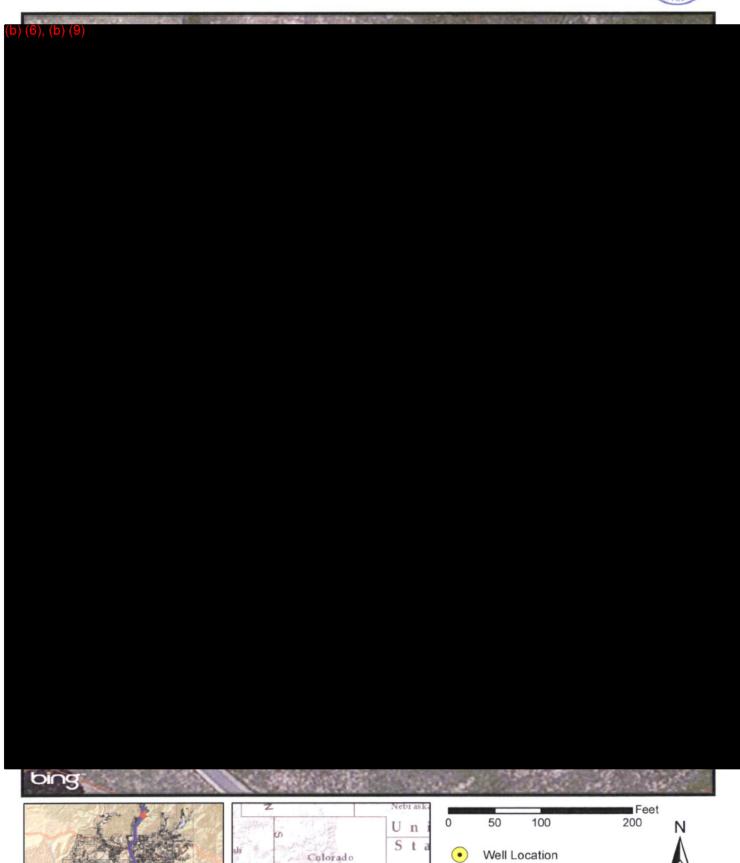
Water Sample ID: GKMTW20





Water Sample ID: GKMTW20





Parcel Boundary

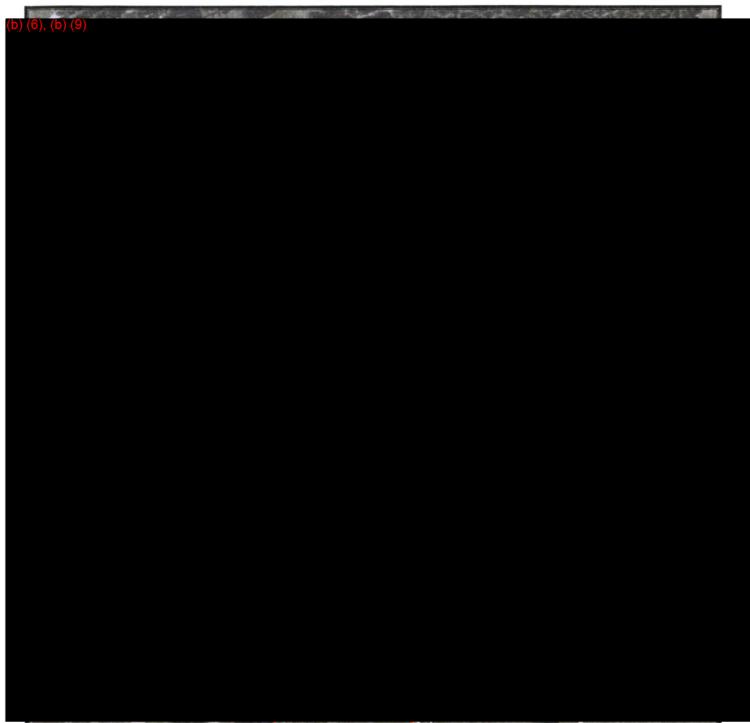
Map Created: 8/31/2015

1:1,200

1 inch = 100 feet

Property ID: GKMTW20







Water Sample ID: GKMTW20

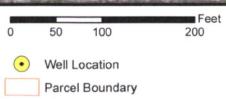








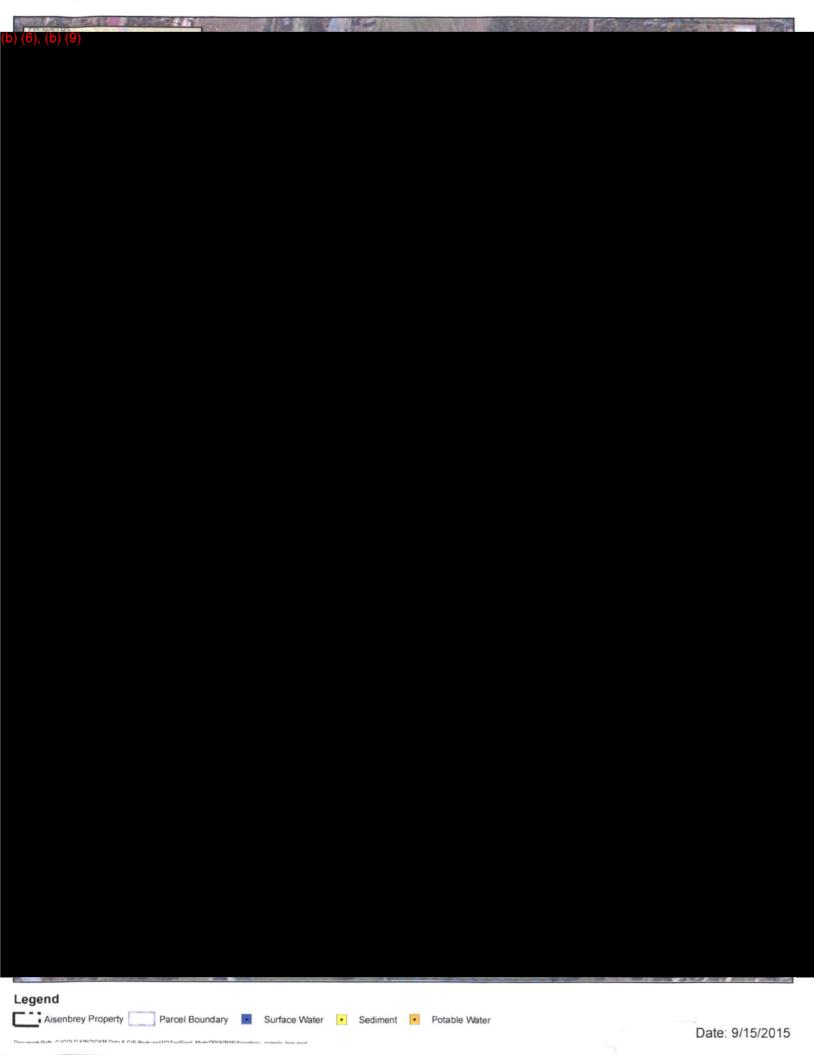




Map Created: 8/31/2015



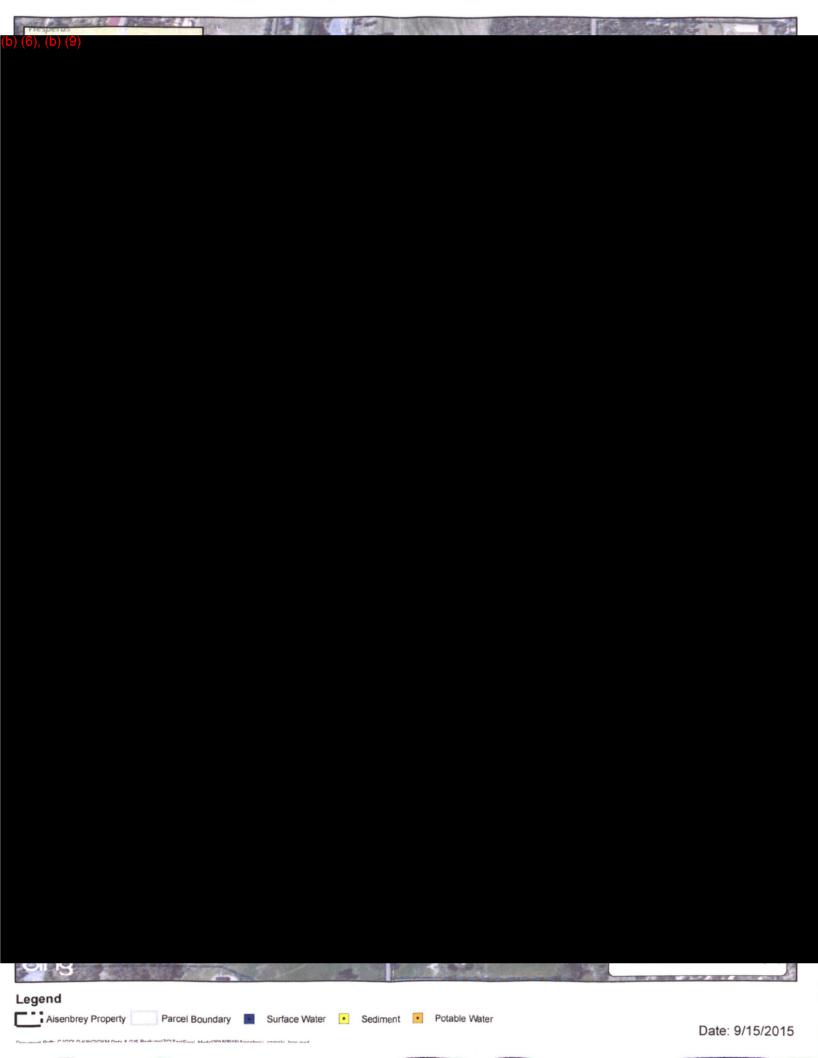
1:1,200 1 inch = 100 feet





Potable Water Analytical Data - Region 8 Upper Animas River

			Groundwater MCL		Location Sample ID Date Sample Time	GKMTW28.081015 08/10/15 15:56	GKMTW28 GKMTW28.081515 08/15/15 13:48
Analyte	CAS.NO	Units		CO Standard	Latitude Longitude		
Metals, Total							
Aluminum	7429-90-5	ug/L				< 200 U	< 200 U
Antimony	7440-36-0	ug/L	6	6		19	<1U
Arsenic	7440-38-2	ug/L	10	10		2.5	<1U
Barium	7440-39-3	ug/L	2000	2000		27	3
Beryllium	7440-41-7	ug/L	4	4		< 0.4 U	< 0.4 U
Cadmium	7440-43-9	ug/L	5	5		0.21	< 0.5 U
Calcium	7440-70-2	ug/L				84000	1000
Chromium	7440-47-3	ug/L	100	100		< 2 U	< 2 U
Cobalt	7440-48-4	ug/L				0.6	< 0.4 U
Copper	7440-50-8	ug/L	1300	1300		35	1.3
Iron	7439-89-6	ug/L	300			< 50 U	< 50 U
Lead	7439-92-1	ug/L	15	15		20	< 0.3 U
Magnesium	7439-95-4	ug/L				37000	620
Manganese	7439-96-5	ug/L	50			6.5	< 2.5 U
Mercury	7439-97-6	ug/L	2	2		< 0.2 U	< 0.2 UJ
Molybdenum	7439-98-7	ug/L				7.5	< 1 U
Nickel	7440-02-0	ug/L				1.6	0.89 J
Potassium	7440-09-7	ug/L				5400	730 J
Selenium	7782-49-2	ug/L	50	50		< 2 UB	< 2 U
Silver	7440-22-4	ug/L	100			0.1 J	< 1 U
Sodium	7440-23-5	ug/L				36000	14000
Thallium	7440-28-0	ug/L	2	2		< 0.2 U	< 0.2 U
Vanadium	7440-62-2	ug/L				< 1 U	< 1 U
Zinc	7440-66-6	ug/L	5000		,	20	3 1
General							
Hardness	STL00009	mg/L				360000	5000



No Prop ID listed Aisenbrey Property Parcel Boundary Surface Water Observation Potable Water Entered Date: 9/15/2015 TRW

for TWão

9-16-15

(b) (6) - 09/10/15

^	Sample #	Sample Date	EventID	Location	Sub_Location	Matrix	Collection Method	Sample Type	Analyses
L	GKMTW20_080915	8/9/2015	8/9/2015	GKMTW20		Potable Water	Grab	Field Sample	Suspended Solids (TSS) and Alkalinity
L	GKMTW20_080915	8/9/2015	8/9/2015	GKMTW20		Potable Water	Grab	Field Sample	Total Recoverable Metals
L	GKMTW20_080915	8/9/2015	8/9/2015	GKMTW20		Potable Water	Grab	Field Sample	Total Dissolved Solids/ Dissolved Metals

9/21/15

	Station ID				GKMTW20
	Sample ID				GKMTW20_080915
	Sample Date				8/9/2015
	Sample Time				16:30
	Latitude				(b) (6), (b) (9)
	Longitude				
Analyte	CAS No	Units	Colorado Water Standard	Ground Water MCL	
Metals, Total					
Aluminum	7429-90-5	ug/L	5000		16 U
Antimony	7440-36-0	ug/L	6	6	0.03 U
Arsenic	7440-38-2	ug/L	10	10	0.7 U
Barium	7440-39-3	ug/L	2000	2000	47.4
Beryllium	7440-41-7	ug/L	4	4	0.07 U
Cadmium	7440-43-9	ug/L	5	5	0.03 U
Calcium	7440-70-2	ug/L			64200
Chromium	7440-47-3	ug/L		100	3.6 U
Cobalt	7440-48-4	ug/L	50		0.2
Copper	7440-50-8	ug/L	200	1300	0.8 U
Iron	7439-89-6	ug/L	300	300	959
Lead	7439-92-1	ug/L	50	15	0.2 U
Magnesium	7439-95-4	ug/L			14200
Manganese	7439-96-5	ug/L	50	50	14
Mercury	7439-97-6	ug/L		2	0.6 UJ
Molybdenum	7439-98-7	ug/L			1.2
Nickel	7440-02-0	ug/L	100		0.6 U
Potassium	7440-09-7	ug/L			1890
Selenium	7782-49-2	ug/L	20	50	0.2 U
Silver	7440-22-4	ug/L	50	100	0.03 U
Sodium	7440-23-5	ug/L			3430
Thallium	7440-28-0	ug/L	2	2	0.01 U
Vanadium	7440-62-2	ug/L	100		1.8 U
Zinc	7440-66-6	ug/L	2000	5000	16

- U = The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
- J = Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
- J- = The result is an estimated quantity, but the result may be biased low.
- UJ = The material was analyzed for, but was not detected. The associated value is an estimate and may be inaccurate or imprecise
- UB = The analyte was detected in the sample below the Reporting Limit (RL) and in either the associated laboratory blank or field blank; the analyte result was reported as non-detected at the RL due to blank contamination.
- J+ = The result is an estimated quantity, but the result may be biased high.
- R = Reported value is "rejected." The sample results are rejected due to serious deficiencies in meeting QC criteria. The data are unusable. The analyte may or may not be present in the sample.
- F1 = MS and/or MSD Recovery is outside acceptance limits.
- HF = Field parameter with a holding time of 15 minutes. Test performed by laboratory at client's request.
- * = The result exceeds maximum contaminant level
- mg/kg Parts per million (milligrams per kilogram). Liquids equivalent = mg/l.
- ug/l Parts per billion (micrograms per liter)

Highlighted Yellow: indicates result exceeded Screening Value

Angluto	Station ID Sample ID Sample Date Sample Time Latitude Longitude				GKMTW20 GKMTW20_080915 8/9/2015 16:30 (b) (6), (b) (9)
Analyte	CAS No	Units	Colorado Water Standard	Ground Water MCL	
Metals, Total					
Aluminum	7429-90-5	ug/L	5000		16 U
Antimony	7440-36-0	ug/L	6	6	0.03 U
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Barium	7440-39-3	ug/L	2000	2000	47.4
Beryllium	7440-41-7	ug/L	4	4	0.07 U
Cadmium	7440-43-9	ug/L	5	5	0.03 U
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Magnesium	7439-95-4	ug/L			14200
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Mercury	7439-97-6	ug/L		2	0.6 UJ
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Sodium	7440-23-5	ug/L			3430
Thallium	7440-28-0	ug/L	2	2	0.01 U
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Vanadium	7440-62-2	ug/L			1.8 U
u g/400066-65nd			CMV+	naul	

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PropertyID GKM20

Location: GKM20

Samp_No: GKMSE27_090115

Latitude Longitude SampleDate SampleTime Matrix Pre/Post Sub_Location

(b) (6), (b) (9) 9/1/2015 10:35 Sediment River

Remarks: Mile marker 490.67, Elk Park

Samp_No: GKMSW20_081815

Latitude Longitude SampleDate SampleTime Matrix Pre/Post Sub_Location

(b) (6), (b) (9) 8/18/2015 10:17 Surface Water River

Remarks: Sample collected from the Animas River at Elk Park. Sample GKMSE27_081815 was also

taken at the same location.

Samp_No: GKMSW20_090115

Latitude Longitude SampleDate SampleTime Matrix Pre/Post Sub_Location

9/1/2015 10:35 Surface Water River

Remarks: Mile 490.67, Elk Park

Samp_No: GKMSE27_081815

Latitude Longitude SampleDate SampleTime Matrix Pre/Post Sub_Location

(b) (6), (b) (9) 8/18/2015 10:15 Sediment River

Remarks: Sample taken as 5-point conposite of sediment. Sample GKMSW20_081815 was also

taken at this location near the same time.